87525

Cyclopropanes and Cyclobutanes. XIV. Phenyl S/079/60/030/012/005/027 Cyclopropanes With Substituents in the Para B001/B064
Position of the Benzene Cycle

nitrating phenyl cyclopropane, with subsequent reduction of the nitro group to the amino group (Ref. 1), served as the initial product. The replacement of the latter in p-amino phenyl cyclopropane by other substituents was carried out by diazotization. Thus, p-hydroxy-p-chloro- and p-bromophenyl cyclopropane results:

 $\begin{array}{c} \text{p-H}_2\text{N-C}_6\text{H}_4\text{-CH-CH}_2 & \rightarrow \text{p-X-C}_6\text{H}_4\text{-CH-CH-CH}_2 & (\text{X = OH, Cl, Br}). \text{ p-amino-} \\ \text{phenyl cyclopropane was also used for synthesizing p-dimethyl amino phenyl cyclopropane:} \\ \text{p-H}_2\text{N-C}_6\text{H}_4\text{-CH-CH}_2 & \frac{(\text{CH}_3\text{O})_2\text{SO}_2}{\text{benzene, 60°C}} & \text{N-C}_6\text{H}_4\text{-CH-CH}_2 \\ \end{array}$

A study of the Raman spectra of the phenyl cyclopropanes obtained showed that no unsaturated compounds had been added; intensive frequencies appeared at 1600 cm⁻¹, which are characteristic of the aromatic cycle, as well as bands (1200-1260 cm⁻¹) indicating the presence of the phenyl cyclopropane molecule (Refs. 5, 6). The ultraviolet absorption curves of aryl cyclopropanes (Diagrams 1 and 2) showed the same character as those of p-tolyl Card 2/3

SHABAROV, Yu.S.; LEVINA, R.Ya.; POTAPOV, V.K.; OSIPOV, A.M.; TRESHCHOVA, Te.G.

Cyclopropanes and cyclobutanes. Part 14: Phenylcyclopropanes
with substituents in the para positions of the benzene ring.
Zhur. ob. khim. 30 no.12:3874-3876 D '60. (MIRA 13:12)

1. Moskovskiy gosudarstvennyy universitet.
(Benzene)

POTAPOV, V.K.

Breakup of CO+ and COT ions colliding with meon and helium atoms. Zhur. fiz. khim. 34 no.2:444-445 F '60. (MIRA 14:7)

l. Fiziko-khimicheskiy institut im. L.Ya.Karpova, Moskva. (Ions) (Neon) (Helium)

SHABAROV, Yu.S.; LEVINA, R.Ya.; POTAPOV, V.K.

Cyclopropenes and cyclobutanes. Part 25: Interaction of phenylcyclopropane with pyridine sulfotrioxide.

Zhur.ob.khim. 32 no.10:3184-3188 0'62. (MIRA 15:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Benzene)
(Pyridinesulfonic acid)

SHABAROV, Yu.S.; POTAPOV, V.K.; LEVINA, R.Ya.

Cyclopropane and cyclobutanes. Part 35: Nitration of 1,2-diphenyl-cyclopropane. Zhur.ob.khim. 33 no.12:3893-3897 D '63.(MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

SHABAROV, Yu.S.; POTAPOV, V.K.; LEVINA, R.Ya.; TRESHCHOVA, Ye.G.

Cyclopropanes and cyclobutanes. Part 26: Stereoisomeric
1,2- and 1,3-methylphenylcyclobutanes. Vest:Mosk.un. Ser.2:Khim.
18 no.1:61-65 Ja-F '63. (MIRA 16:5)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.

(Gyclobutane) (Isomers)

S/189/63/000/001/008/008 D204/D307

AUTHORS:

Shabarov, Yu. S., Potapov, V. K., Levina, R. Ya. and

Treshchova, Ye. G.

TITLE:

Cyclopropanes and cyclobutanes. XXVI

PERIODICAL:

Mcscow. Universitet. Vestnik. Seriya II. Khimiya,

no. 1, 1963, 61-65

TEXT: Stereoisomeric 1-methyl-2 phenylcyclobutanes and 1-methyl-3-phenylcyclobutanes were studied spectroscopically and an attempt was made to determine the <u>cis-</u> and <u>trans-configurations</u>. Raman

bands at ~1200 cm⁻¹ of all isomers were slightly higher than the corresponding lines for alkylbenzenes. <u>Cis-</u> and <u>trans-1-methyl-2-</u> phenylcyclobutanes could not be distinguished in the Raman spectora. In the case of 1-methyl-3-phenylcyclobutanes, the higher boiling isomer A exhibited a broad, fairly intense band at 872 cm⁻¹, whilst the lower-boiling isomer B showed a corresponding band at 854 cm⁻¹. The ~1200 cm⁻¹ and 1600 cm⁻¹ intensities were also higher

Card 1/2

S/189/63/000/001/008/008 D204/D307

Cyclopropanes and cyclobutanes ...

in B, a property characteristic of trans-forms. Uv spectra of 1-methyl-2-phenylcyclobutanes in iso-octane showed that isomer A, distinguished by higher physical constants, absorbed more strongly in the 225 - 250 mm region than the other isomer, B. The same was true of the A-form of 1-methyl-3-phenylcyclobutane, though to a lesser extent. Control tests with 1,2-diphenylcyclopropanes, whose configurations were established chemically, showed that transforms absorbed more strongly in the uv. Configurations of 1-methyl-2-phenylcyclobutanes may thus be assigned only from uv absorption spectra, whilst the configurations of 1-methyl-3-phenyl-cyclobutanes remain unresolved, since Raman and uv spectra gave contradictory indications. L. A. Kazitsyna measured the uv absorption. There are 3 figures and 1 table.

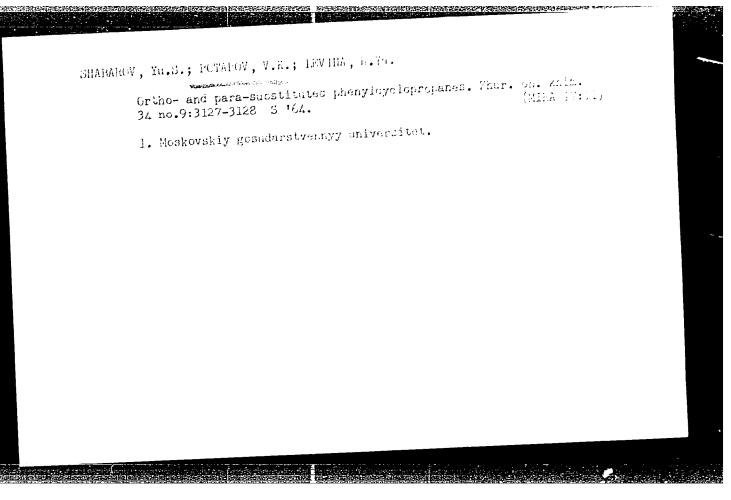
ASSOCIATION: Kafedra organi

Kafedra organicheskoy khimii (Department of Organic Chemistry)

Chemistry

SUBMITTED: June 28, 1961

Card 2/2



POTAPOV. V.K.; ARSENT'YEV, A.G.; KAZAKEVIGH, V. Ye.; PISKUBOV, A.K.;
GHIZHEVSKAIA, N.N.

Automatic recording of ionization curves. Prib. i tekh. skap.
9 no.3s123-125 My-Je 164

(MIRA 18tl)

SHABAROV, Yu.S.; POTAPOV, V.K.; IEVINA, R.Ya.

Ceclopropanes and cyclobutanes. Fart 39: Electron-donor proterties of small rings. Zhur. ob. khim. 34 no.9:2832-2834 S '64.

(MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet.

CHARLET, Yu.S.; ECTOROV, V.E.; KOICGEOVA, N.M.; FORTEREBROVE, A.A.;
STIRINA, T.C.; LETIMA; R.Za.

Cyclogroganes and cyclogulanes. Fact 3F: Mirration of 3-substitute;
thenyloyeloproganes. Thur. ob. khim. 34 no.9:V829-2832 S 'co.
(MIRA 17:11)

1. Meskovskiy gosudarstvennyy universitet.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

ACCESSION NR: AP4041032

S/0120/64/000/003/0123/0125

AUTHOR: Potapov, V. K.; Arsent'yev, A. G.; Kazakevich, V. Ye.;

Piskunov, A. K.; Chizhevskaya, N. N.

TITLE: Automatic recording of ionization curves

SOURCE: Pribory* i tekhnika eksperimenta, no. 3, 1964, 123-125

TOPIC TAGS: spectrometer, mass spectrometer, MKh-1303 mass spectrometer, ionization curve recording

ABSTRACT: A device for automatic recording of ionization curves (up to one minute) in an MKh-1303 mass spectrometer is described. The ion-source electron gun generates 5-30-ev electrons for ionizing gases or vapors. The ionization and ion-extraction processes are time-separated. Resonance amplification of the ion current corresponding to the electron ionization with a specified energy scatter, synchronous detecting, and the direct recording of ionization

Cord 1/2

ACCESSION NR: AP4041032

curves provided a higher sensitivity and accuracy of the mass spectrometer in measuring ion-appearance potentials; also, the speed of taking ionization curves was increased compared to the known manual method of "quasi-monokinetisation" of electrons. Orig. art. has: 3 figures.

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-khimicheskiy institut (Scientific Research Physico-Chamical Institute)

SUBMITTED: 05Jun63

ENCL: O

SUB CODE: GC, GP

NO REF SOV: 003

OTHER: 002

Card C12

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013427

POTAPOV, V.K.; SHABAROV, Yu.S.; LEVINA, R.Ya.

Cyclopropanes and cyclobutanes. Part 37: Capacity of arylcyclopropanes for complex formation with mercury acetate. Zhur. ob. propanes for as 164.

1. Moskovskiy gosudarstvennyy universitet.

The second secon	かけってつか。(五)/T/EMN(家)-2 PG-4/Pab-10/	
CCESSION NK: ALDOLO.	UR/0020/65/161/002/0406/0409	See Sugar and American Section 2018
n N .: Medyedev	, S. S.; Potapov, V. K.	
UIROR. UIRZG	n the processes of the ionization and decompo-	
1+ion or compounds	しゃ はいしゅう さんだい しょだい しゅうきゅうだい しゃいしゅう ロー・コート 一手	
Au cosp Doklady, v. 161	, no. 2, 1965, 406-409	
TOPIC TAGS: electron transition,	ionization curve, anthraquinone morecure,	
group, chromophoric group /	2 - whitrangitions in the	
	ating the role of n-m* transitions in the ecomposition of molecules, the author ecomposition of molecules of ions of and occurrence potentials of ions of	
investigated the louization by t	he electron shock method. The investage mass-	
were performed with the all	the ionization potentials of morection notentials of	
the electron quasimonokinetization	on method. The first ionization pour and fluorenous correspond to the energies of	

0

L 53757-65 ACCESSION NR: AP5010172

separation of electrons from an undivided pair of oxygen atoms, while the second potentials correspond to the separation energies of n-electrons. This conclusion is in agreement with the fact that the first longwave band of the absorption spectrum of the anthraquinone molecule corresponds to the n-m* electron transition and the second band, to the u-n* electron transition. For fluorenone the yield of ions formed by the separation of the n-electron from a pair of oxygen electrons is 2-3 times smaller than for anthraquinone. This may be related to the difference in their ionization potentials $(I_{\Pi}-I_{\Pi})$ and the number of π electrons of the investigated molecules per chromophoric group. The principal processes of the decomposition of anthraquinone molecules, as indicated by massspectrographic analysis, are the processes of the isolation of neutral CO groups from the molecules and formation of C6H4COC6H4+ and C6H4C6H4 ions. Their occurrence potentials, as well as the occurrence potentials of the C6H4C6H4+ ion from fluorenone, are tabulated. It is assumed that during the decomposition of the anthraquinone molecule and absorption of an energy of 10.39 ev by that molecule a single CO group is released. In the event of the absorption of an energy of 11.02 ev, two carbonyl groups are successively split off that molecule. One group is released by fluorenone at 10.14 ev. In both cases there form ions of

La grande de la composition de la comp

Card 2/3

L 53757-65 AP5010172 ACCESSION NR: an identical structure corresponding to the cation-radical of o-diphenylene. This may account, e.g., for the mechanism of the decomposition of alcohols. molecules of these compounds, when in specified states, decompose as a result of the exchange interaction between the unpaired electrons of the oxygen atom and the electron of the adjacent carbon atom, which leads to the formation of a new bond/between carbon and oxygen and the disruption of the C-H or C-C bond and the concomitant formation of the corresponding radicals R-CH-OH and cations R-HC = 0-H. Orig. art. has: 5 figures, 1 table. ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (L. Ya. Karpov Physicochemical Institute) SUB CODE: OC, GC ENC: 00 SUBMITTED: 31Aug64 OTHER: 003 NO REF SOV: 008 Z 3/3

Preparation of bromopentene (4,2) and its utilization in the magnesium-organic synthesis. Nauk.zap.L'viv.un. 9:117-125 '48. (MLRA 10:5) 1.Kafedra organicheskoy khimii. (Crotomaldehyde) (Pentene) (Grigmard reagents)

POTAPOV, V. H.

USSR/Chemistry - Acrylic Acid: VII, N-Ethyl-N-Phenyl-Beta-Aminopropionitrile and Come of Its Derivatives," A. P. Terent'yev, A. H. Kost, V. K. Potapov, Lab of Org Chem imeni Academician N. D. Zelinskiy, Hoscow State U, 5 pp

"Zhur Obshch Khim" Vol XVIII (LXAX), No 1,1948

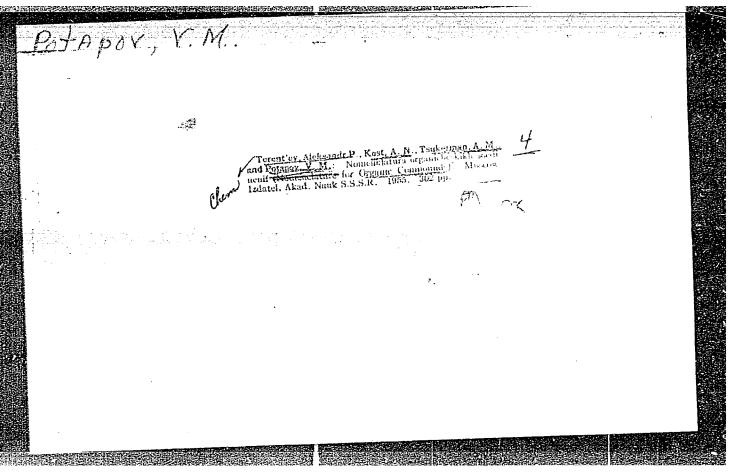
On samples of ethylaniline, studies were made of the reaction of condensation of acrylonitrile with aromatic amines. Show that better results are obtained, up to 70% of calculated production, when components are heated in the presence of acetic acid. Nature of the obtained N-ethyl-N-phenyl-beta-aminoporpionitrile was saponified, and corresponded to produrts of amides and acids.

Submitted 13 Jan 1947

PA 64T38

CIA-RDP86-00513R0013427 APPROVED FOR RELEASE: Tuesday, August 01, 2000

FOTAPOV, V. M. - "The deriv tion of bromepentene (4.2) and its utilization in Fotapov, V. M. - "The deriv tion of bromepentene (4.2) and its utilization in organic-ma medium synthesis," Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis," Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), organic-ma medium synthesis, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), un-t in.Franke, "Uchen, zapiski (Livovsk, gr., un-t in.Franke), un-t in.Franke, "Uchen, zapiski (Livovsk, gr., un-t in.Franke, un-t in.F



TERENT YEV, A.P.; POTAPOV, V.M.; KOST, A.N.; TSUKERMAN, A.H.

Systematic nomenclature of organic compounds. Vest. Mosk. un (MLRA 9:1)

no.6:97-134 Je'55.

1. Kafedra spetsial'nogo organicheskogo sintesa.

(Chemistry, Organic--Nomenclature)

POTA	4 POV, V.M.	The second secon	
	USSR	Optically-active substances in the laboratory and in nature. A. P. Terent ev and V. M. Potapov. Privoda 44. No. 5, 37—4(1955).—A review of the work on optically active materials including a discussion of asymetric synthesis. J. Roytar Leach j. Roytar Leach	
	ATTERNATE AND		
-			

TERRET'IEV, A.P.; POTAPOV, V.M.

At the international chemical congress in Zürich. Priroda 44 no.12:42-47 D '55. (MIRA 9:1)

1.Chlen-korrespondent Akademii nauk SSSR, (for Terent'yev). (Zürich--Chemistry--Congresses)

TERENT'YEV, A.P.; KOST, A.N.; TSUKERMAN, A.M.; POTAPOV. V.M.;

SERGEYEV, P.G., professor, redaktor; STRUCHKOV, Tu.T.,

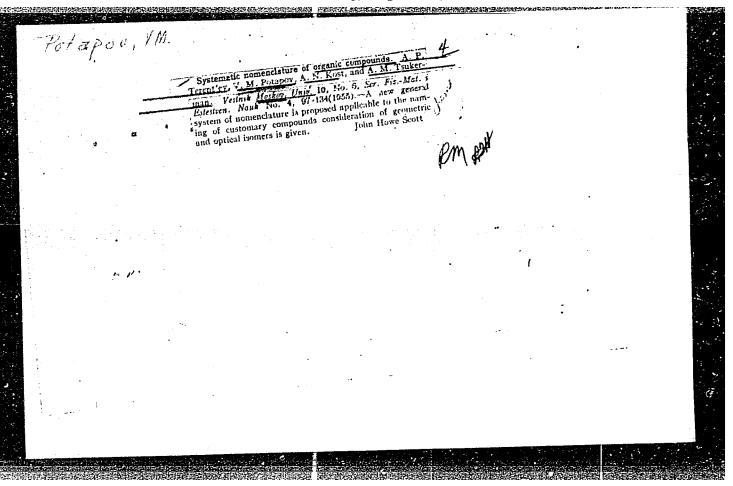
redaktor; MOSKVICHEVA, N.I., tekhnicheskiy redaktor.

[Nomenclature of organic compounds; survey, criticism,
proposals] Nomenklatura organicheskikh soedinenii;

obzor, kritika, predlozhenia. Moskva, Izd-vo Akademii

nauk SSSR, 1955. 302 p. (MLRA 8:12)

(Chemistry, Organic--Nomenclature)

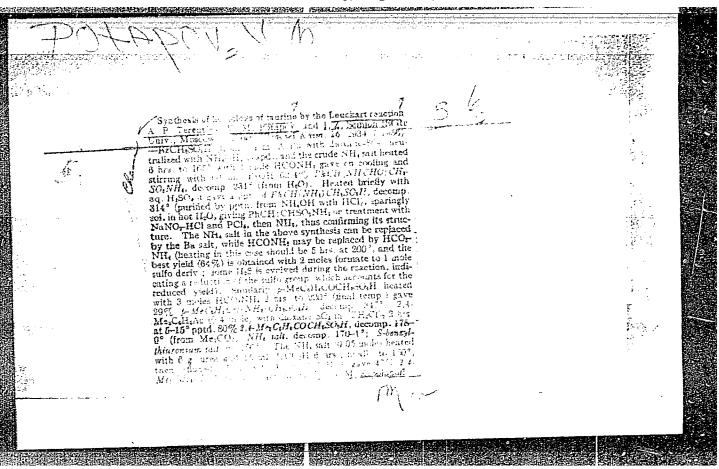


Potagov, V. M.

"Synthetic and stereochemical investigations of the alpha-wheny" ethylamine series." Poscow State U imeni E. V. Lomonosov. Chemistry ethylamine of Organic Chemistry. Moscow, 1956 (Dissertation Faculty. Chair of Organic Chemistry. Moscow, 1956 (Dissertation for the degree of Candidate in Chemical Science)

Knizhnaya Letonis!
No. 25, 1956. Poscow

Sulfonation and sulfonic acids of acidophobe compounds. Part 27. Alkylsulfuric acids sas reagents for the cleavage of racemic cases. Zhur.ob.khim. 26 no.1225-1228 Ap '56. 1. Moskovskiy gosudarstvennyy universitet. (Sulfuric acid) (Ethylamine)



Hotapov, VIAI

USSR/Organic Chemistry. Synthetic Organic Chemistry. E-2

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26796.

Author : Terent yev, A.P.; Potapov, V.M.,

Semion, I.Z.

Inst

Title : Synthesis of Homologues of Taurine by Leukart's

Reaction.

Orig Pub: Zh. obshch. khimii, 1956, 26, No. 10, 2934 -

2937。

Abstract: The acids ArCH(NH2)CH2SO3H (II) - aromatic

homologues of taurine - were prepared using Leukart's reaction by heating NH₄ of Ba salts of ArCOCH₂SO₃H (I) with HCOONH₄, or HCONH₂, or a mixture of urea and HCOOH (2 to 6 hours, 165 - 200°). O₆4 mol of acetophenone is sul-

fonated with dioxanesulfotrioxide (III),

Card 1/

AND CONTROL OF THE PROPERTY OF THE PARTY OF

POTAPOV, U.A.

USSR/Organic Chemistry. Synthetic Organic Chemistry. E-2

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26784.

Terent yev, A.P.; Potapov, V.M. Author

Inst

Title Sulfonation and Sulfo Acids of Acidophobe Compounds. XXVII. Alkylsulfuric Acids as Reagents

for Splitting Racemic Bases.

Zh. obshch. khimii, 1956, 26, No. 4, 1225 -Orig Pub:

1228.

A new type of acid asymmetric reagents - acid Abstract:

sulfates of optically active alcohols - is proposed for splitting amines into optic antipodes. The salts with (-)-bornylsulfate (I) and (-)menthylsulfate (II) are used for splitting &penylethylamine (III), &-(m-xylyl)-ethylamine (IV) and α -(n-xylyl)-ethylamine (V).

Card 1/4

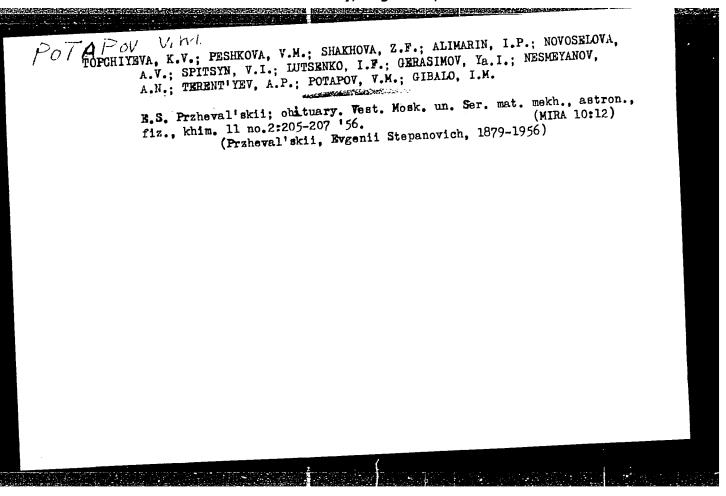
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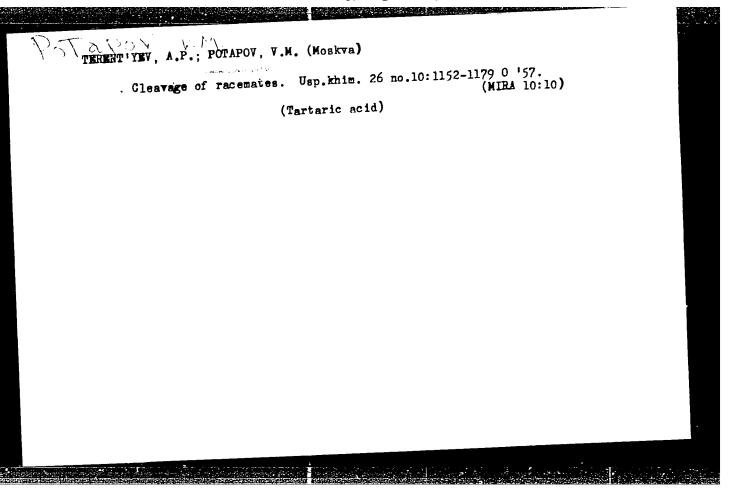
USSR/Organic Chemistry. Synthetic Organic Chemistry. E-2
Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26784.

20.6 g of SO₃ in 70 ml of dichloroethane was added to the solution of 23 ml of dioxane in 130 ml of dichloroethane at 0°, after which 40 g of (-)-borneol was added to it. After the neutralization of the aqueous layer with BaCO₃ 79% of Ba-salt of I, dissociation point 103 = 104°, [a] 20D-18.0° (c=2,7; water), was produced by concentration by evaporation. Ba-salt of II, dissociation point 111 = 112°, [a] 10D = 55.1° (with 1,5; water), was produced of (-)-menthol (with 1,5; water), was produced of (-)-menthol in a similar way. 2.7 g of the salt I.(+)-III, melting point 163°, [a] 18D = 12.4° (with 1,1; melting point 163°, [a] 18D = 12.4° (with 1,1; water), [a] 10D = 14.2° (c=1,9; CH₃OH), was produced of 5.1 g of III sulfate and 9.3 g of Ba salt of I (separation of BaSO₄, concentration of filtrate by evaporation down to 200 ml,

card 2/4

THRUNT YEV. A.P.: POTAPOV. V.M.: SEMION, I.Z. Synthesis of taurine homologs by the Leuckart reaction. Zhur. ob. (MIRA 11:3) khin. 26 no.10:2934-2937 0 156. 1. Moskovskiy Gosudarstvennyy universitet. (Leuckart reaction) (Taurine)





"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

POTAPOV Wiktor M., and Statement P. Chemister Tact. Moses w State Univ. im Lemonosvo.

"Actual Problems of Nomenclature in Organic Chemistry,"

Chemische Technik, No. 11, 1957.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

7014401,V.Y.

AUTHORS:

Terentyev, A. P., and Potapov, V. M.

62-1-21/21

TITLE:

Session of the International Commission on the Nomenclature of Organic Compounds (Sessiya mezhdunarodnoy komissii po homenklature organicheskikh soyedineniy)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957, No. 1, pp. 126-127 (U.S.S.R.)

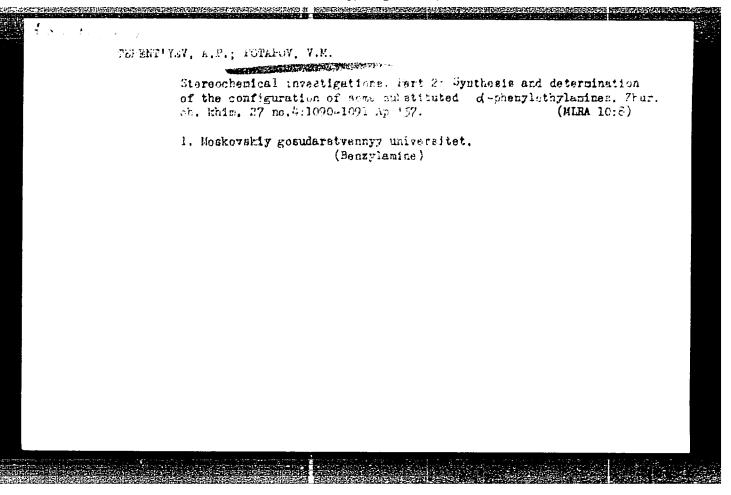
ABSTRACT:

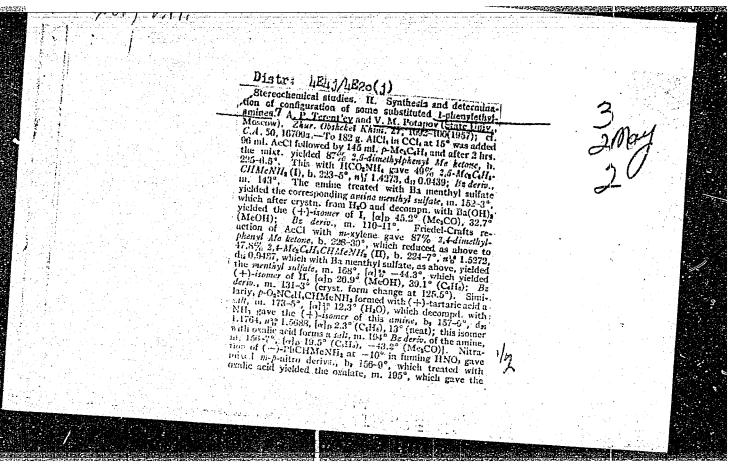
Briefs are presented from the Session of the International Commission on the Nomenclature of Organic Compounds, held in Vedbeke, suburb of Copenhagen, Denmark, during August 27 through September 1, 1956. The names of members of the Commission and their nationalities are listed. Some resolutions adopted at the Session are described, together with a notice that the next session will be held in July, 1957 in

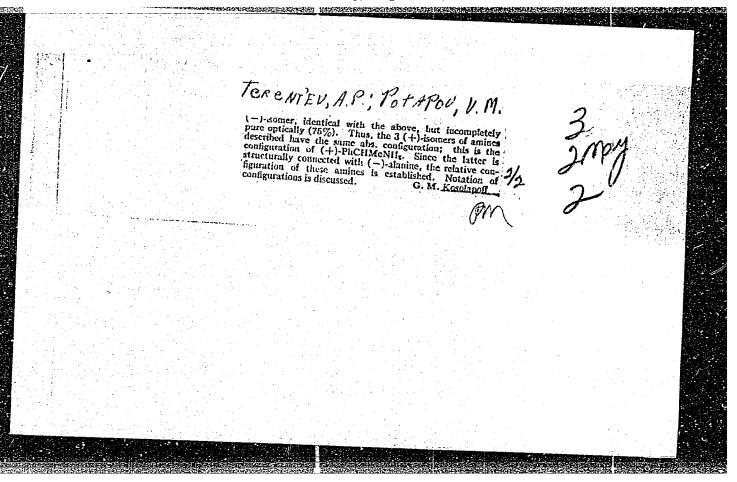
Card 1/2

Paris, France.

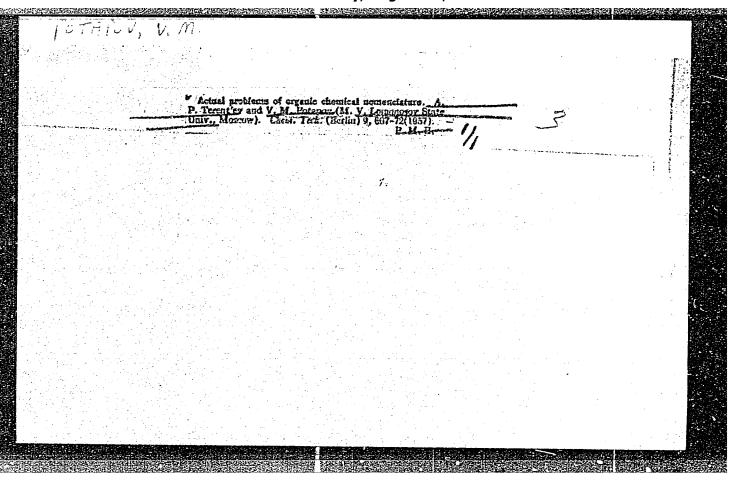
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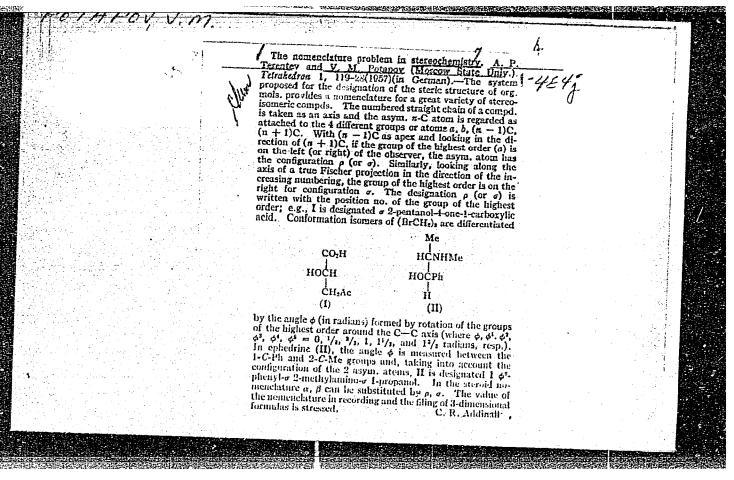






"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"





"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

POTAPOV, V.M.; TERENT'YEV, A.P.

Role played by rotation isomerism in optical activity. Vest. Mosk. un.

Ser. mat., mekh., astron., fiz. khim., 12 no.5:163-170 '57.

(MIRA 11:9)

1.Kafedra organicheskoy khimii Moskovskogo gosudarstvennogo universiteta.

(Isomerium)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

POTAPOV, V.M.; TERENT'YEV, A.P.

Stereochemical investigations. Part 4: Schiff bases from optically active & benzylethylamine. Zhur.ob.khim. 28 no.12:3323-3328 D '58.

(MIRA 12:2)

1. Moskovskiy gosudarstvennyy universitet.

(Ethylamine)

(Schiff bases)

AUTHORS: Terent'yev, A. P., Potapov, V. M. 79-28-5-6/69

TITLE: Stereochemical Investigations (Stereokhimicheskiye

issledovaniya).

III. Schiff Bases From Optically Active α -Phenylethylamine (III. Osnovaniya Shiffa iz opticheski aktivnogo

a-feniletilamina)

The property of the property o

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Mr 5,

pp € 1161-1166 (USSR)

ABSTRACT: Based on a few published optically active Schiff bases,

e.g., such bases from the isomers of menthyl- and phenylamine (References 4,5), the authors obtained Schiff bases from the derivatives of optically active α -phenyl-ethylamine. All details are shown in the table. Concurrently, a report by Nerdel (Reference 6) was published, where some such bases from α -phenylethylamine were described, some of which had already been synthetized by the authors (II, V, VII and XI). Nerdel carried out the cal-

culations of the optical activity on benzene, alcohol,

Card 1/3 chloroform and dioxane, while the authors did so in ben-

Stereochemical Investigations. 79-28-5-6/69 III. Schiff Bases From Optically Active α -Phenylethylamine

zene, methanol, acetone and dichlorethane. Thus data are only coinciding for the benzene solutions, where this is rather exactly the case; in the rest of the solutions they well duplicate, one another. When considering the constants mentioned in the table, the great difference between the data found and the calculated molecular refraction 77as ø , to be expected, because according to Auvers, the exaltation of the molecular refraction for benzylamines can rise up to four units. The data in the table on the optical activity are first of all of interest for the solving of the problem when considering the influence of the character of the substituent in the aromatic nucleus on the extent of the optical rotation in the given type. The authors synthetized Schiff bases from optically active α -phenylethylamine and benzaldehyde, from 13 substituted benzaldehydes and other aldehydes, as well as from furfurol. The results obtained were used to consider the problem of the possible influence of the isomers on the extent of the rotation. There are 2 tables and 13 references, 3 of which are

Card 2/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Stereochemical Investigations. 79-28-5-6/69 III. Schiff Bases From Optically Active $\alpha\text{-Phenylethylamine}$

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: April 8, 1957

Card 3/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

TITLE: Stereochemical Investigations (Stereokhimicheskiye issledovaniya)IV. Schiff's Bases From Optically Active α-Benzyl-Ethyl Amine (IV. Osnovaniya Shiffa iz opticheski aktivnogo α-benzil-

etilamina)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 12,

pp 3323 - 3326 (USSR)

ABSTRACT: In their previous paper (Ref 1) the authors described several Schiff's bases of the first series from optically active a-

phenyl-ethyl amine (I). The specific behavior of these compounds

with respect to optical rotation caused the authors to synthesize and investigate the optical activity of the second series of Schiff's bases. They started from the optically active ambencyl ethyl amine (II), which differs from (I) in the presence of the CH₂ group between the benzene nucleus and the asymmetric center. The synthesis of racemate (II) was carried out by the reducing amination of phenyl acetone according to Leukart (Leykart). The synthesis of this initial

product requires much time. The catalytic condensation of Card 1/3 phenyl acetic acid with ordinary acetic acid is the most

Stereochemical Investigations, IV. Schiff's Bases From SOV/79-28-12-37/41 Optically Active C.-Bennyl-Ethyl Amine

convenient. The cleavage of (II) into the optical antipodes can be obtained by the action of d-tartaric acid in alcohol solution (Refs 2,4). In the place of this acid also the earlier used acid sulfate of menthol can be applied, thus separating (-) (II), whereas in the cleavage with d-tartaric acid the diastereoisomer is separated which contains (+)(II). In this way the two antipodes can be obtained with either reasent. The condensation of (II) with a substituted benzaldehyde takes place easily without solvent, or in benzene already in the water bath. The constants of the purified products synthesized are given in the experimental part, the data on the optical activity in table 1. The optical properties of this series of Schiff's bases differ from those of the series investigated earlier. The experimental material collected on the optical activity of these bases is not sufficient to draw comprehensive conclusions from their detected characteristic features. The optical activity of these bases was, besides in benzene, determined also in methanol, acetone dichloro ethane, and heptene.

Card 2/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Stereochemical Investigations. IV. Schiff's Bases From SOV/79-28-12-37/41 Optically Active $\alpha-Benzyl-Ethyl$ Amine

There are 1 table and 11 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State Univer-

SUBMITTED: November 4, 1957

Card 3/3

5 (3) AUTHORS:

Potapov, V. M., Terent'yev, A. P.,

507/79-29-3-42/61

MENTAL PROPERTY OF THE PROPERT

Dem'yanovich, V. E.

TITLE:

Stereochemical Investigations (Stereokhimicheskiye issledcvaniya). V. The Optically Active β-Phenyl Taurine (V. Opticheski aktiv-

nyy β-feniltaurin)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 953-954 (USSR)

ABSTRACT:

Not long ago the authors worked out a convenient method of synthesizing taurine homologues (Ref 1) from ketones by sulfurization with dioxane sulfo trioxide and the subsequent reduction-amination according to Leuckart. The taurine homologues of the type Ar-CHNH2-CH2SO2H resulting therefrom have

an asymmetric carbon atom. It was of interest to try to obtain these homologues in the optically active form as well. The experiment made in this direction showed that \$-phenyl taurine can indeed be obtained in the optically active form. For this purpose, the corresponding barium salt was obtained from the ammonium salt of N-formyl- β -phenyl taurine (I), which led to the diastereomer I(-)II-salts on the reaction with

the sulfate (-) of α -phenylethylamine (II). In their

Card 1/2

Stereochemical Investigations. V. The Optically Active SOV/79-29-3-42/6† β -Phenyl Taurine

recrystallization from water, one of their diastereomers was separated, which yielded the optically active β -phenyl taurine after decomposition (Scheme). It is to be noted that this active taurine differs considerably from the racemic type with respect to the crystal shape and its properties. The racemate has a different crystal shape from the optically active taurine and melts at $347\text{--}349^{\circ}$ against $317\text{--}320^{\circ}$. Also their solubility in water differs. The decomposition of β -phenyl taurine into the optical antipodes was realized through the diastereomer salt of its formyl derivative with (-) α -phenyl ethyl amine. There are 1 table and 2 references, 1 of which is Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

January 23, 1958

Card 2/2

5 (3) AUTHORS: Terent'yev, A. P., Potapov, V. M.,

SOV/79-29-3-41/61

.Dem'yanovich, V. M.

TITLE:

New Aromatic Homologues of Taurine (Novyye aromaticheskiye

gomologi taurina)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 949-952 (USSR)

ABSTRACT:

The synthesis of the taurine homologues (Ref 1) which the authors had already earlier worked out by the reduction-amination according to Leuckart of the β -keto sulfo acids (Ref 2) which are now easily accessible, was applied also in the work under review for the synthesis of new aromatic taurine homologues of the substituted β -phenyl taurines. The initial ketones of the aliphatic-aromatic series obtained according to Friedel-Crafts (Ref 3) (by condensation of the corresponding benzene compounds with acetyl chloride) were transformed by dioxane sulfotrioxide into the β -keto sulfo acids. Table 1 shows the constants of their ammonium and S-benzyl thiouronium salts. The ammonium salts of β -ketone sulfo acids were introduced into the reduction-amination reaction. As reagents were used formamide (method A), a mixture of 85 % formic acid and ammonium carbonate (method B), as well as a mixture of urea

Card 1/3

New Aromatic Homologues of Taurine

507/79-29-3-41/61

and anhydrous formic acid (method C). On the synthesis of β -phenyl taurine from the ammonium salt of ω -acetophenone sulfo acid, the method B gave the highest yields. To avoid a hydrolysis of the sulfo group at the beginning of the reaction, the water was expelled in the Wuertz flask at 185° as long as the medium was still acid by excess of formic acid. After cooling, ammonium salt of β -keto sulfo acid was added to the mixture obtained, consisting of formamide and ammonium formiate, and the whole was heated during 6 hours up to 180-185°. The reaction began at 120-125°. The hydrogen sulfide development showed that the sulfo group participated in the reaction. A control proved that the sulfo group of the forming amino sulfo acid is not affected under the reaction conditions. For some derivatives of β -phenyl taurine, quantitative yields were obtained on the reaction of the corresponding β -ketone sulfo acids with the mixture of urea in anhydrous formic acid (method C). The constants of the taurines synthesized may be seen in table 2. There are 2 tables and 3 references, 2 of which are Soviet.

Card 2/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

New Aromatic Homologues of Taurine

sov/79-29-3-41/61

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

February 9, 1958

Card 3/3

807/79-29-9-70/76 5(3) Potapov, Y. W., Terent'yev, A. P., Sarybayeva, R. I. AUTHORS: Stereochemical Investigations. VI. Schiff's Bases From Opti-TITLE: cally Active $\alpha-(p-Xylyl)-ethyl$ Amine PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 3139 - 3141 (USSR) The authors continue their previous investigations (Refs 1,2) and synthesize a number of Schiff's bases from α -(p-xylyl)-ABSTRACT: ethylamine. Regarding the optical activity, there are some differences in both series in spite of great similarity of these bases with those of α -phenyl-ethyl amine. It is remarkable that the former bases, depending upon the solvent, change the value of rotation considerably more than the formerly described bases of α -phenyl-ethyl amine. With the exception of two Schiff's bases, the values of molecular rotation of α -(p-xylyl)ethyl amine derivatives are in most cases noticeably lower than those of the α -phenyl-ethyl amine derivatives. Otherwise Schiff's bases of both series are very similar to one another, which is shown especially qualitatively by equal intensification of the optical activity depending on the nature of the Card 1/2

Stereochemical Investigations. VI. Schiff's Bases From SCV/79-23-3-70/76 Optically Active α -(p-Xylyl)-ethyl Amine

substituent in the aldehyde ring. α -(p-Xylyl)-ethyl amine in its optically active form was obtained from its racemate by way of the diastereoisomeric salts with methyl sulphuric acid (Ref 3). A much better separation was achieved with greater amounts of diastereoisomeric salts. The data on the optically active Schiff's bases obtained are listed in the table. The determinations were made at room temperature. If the initial amine was not quite pure optically, the Schiff's base was parified by distillation only, since it had to be feared that the optical degree of purity could change in recrystallization. There are 1 table and 3 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: August 4, 1958

Card 2/2

CIA-RDP86-00513R001342 "APPROVED FOR RELEASE: Tuesday, August 01, 2000

5.3610,5.3100

77916S07/79-30-2-67/78

AUTHORS:

Potapov, V. M., Terent'yev, A. F.

TITLE:

Stereochemical Investigations. VII. Schiff Bases From Optically

Active **a**-Phenylpropylamine

PERIODICAL:

Zhurnal obshehey khimii, 1960, Vol. 30, Nr 2, pp 666-670 (USSR)

ABSTRACT:

The authors reported previously (this Journal, 1958, Vol 28, p 1161; ibid., Vol 28, p 3321; ibid., 1959, Vol 29, p 3139) the optical investigation of Schiff bases obtained from optically active amines (such as α -phenylethylamine (I), and others) with CH_3 as one of the substituents at the center of asymmetry. Amines with other aliphatic radicals were investigated in the present study. lpha -Phenylpropylamine (II) was obtained by Leuckart reductive amination of propiophenone. The resolution of (II) was made with (-) -malic acid in ethanol, and the Schiff bases were obtained from the optically active (II) by heating it with the corresponding aromatic aldehydes in benzene (preparations 1-8) or methanol

(preparations 9-11). The molecular rotation [M] D of the (II)-

Card 1/3

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propylamine

-derived Schiff bases (recalculated for optically pure (+) - α -phenylpropylamine) and of (I)-derived bases are given in Table 1.

Table 1. Molecular rotations of Schiff bases from (+)- α -phenyl-propylamine $C_6^{\text{H}_5}$ -CH($C_2^{\text{H}_5}$)-N=CH-X.

Key to Table 1. (A) Preparation Nr; (B)
M in benzene; (C) M without solvent;
(D) M for derivatives of (I) in benzene.

А	X	В	С	D
1 2 3	o-NO ₂ C ₀ H ₄ o-OCH ₃ C ₀ H ₄ HC — CH ∥ ∥ −C CH	+382° +145 -123	+315° +151 -176	+227° + 85 -132
4 5 6 7 8 9 10	C ₀ H ₅ C ₀ H ₅ CH ₂ C ₀ H ₄ CCH ₃ C ₀ H ₄ COH ₃ C ₀ H ₄ COH ₃ C ₀ H ₄ COHC ₀ H ₄	-165 -171 -244 -259 -271 -399 -468		168 234 258 248 271 402 460

Card 2/3

DESCRIPTION OF THE PROPERTY OF

POTAPOV, V.M.; TROFIMOV, F.A.; TERENT'YEV, A.P. Spectropoxlarimetric study of a ketimide-enamine tautomeric system: (MIRA 13:9) Dokl. AN SSSR 134 no.3:609-611 S '60.

- 1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. 2. Chlen-korrespondent AN SSSR (for Terent'yev). (Tautomerism)

S/020/60/132/03/38/066 B011/B008

5.3100

Potapov, V. M., Terent'yev, A. P., Corresponding Member

AS USSR

TITLE:

AUTHORS:

On the Tautomerism of Amides

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 3,

pp. 626-627

TEXT: When studying the rotatory dispersion of some derivatives of the optically active α -phenyl-ethyl amine in the ultraviolet spectral range, the authors obtained new data concerning the tautomerism of amides. For this purpose they used a simple variant of the photo-electric spectropolarimeter developed in their laboratory. It is well known that a tautomerism R — $CONH_2 \longleftrightarrow C(OH) = NH$ occurs in the case of the amides of the carboxylic acids. A uniform opinion about the structure of the amides is lacking so far, in spite of numerous investigations by other scientists. In no case actually 2 amide forms were produced. The authors stated that the rotatory dispersion curves are only slightly varied at the transition from benzene to methanolic solutions for free

Card 1/3

On the Tautomerism of Amides

Card 2/3

S/020/60/132/03/38/066 B011/B008

 α -phenyl-ethyl amine (I), N-benzyl- α -phenyl-ethyl amine (II), as well as benzal-α-phenyl-ethyl amine (III). For N-benzoyl-α-phenyl-ethyl amine (IV), on the other hand, the digit sign of the rotation as well as the course of the dispersion curve are directly opposed to each other in benzene (Fig. 1 dashed lines) and in methanol (solid lines). In benzene, IV shows a similarity with II, in methanol, however, with III. The lactam form is apparently predominant in benzene, whereas the lactim form is predominant in methanol (compare data by Yu. N. Sheynker, Ref. 3). In agreement with the above interpretation, such an effect of the solvent is absent at the benzoyl-derivative of the amine II (Fig. 1,V), since it lacks the H-atom on the nitrogen, which would be capable of a tautomeric transition. For the above mentioned reasons, the authors tested again the differences of the melting points of the benzoyl-a-phenyl-ethyl amine from publications: 122°C from alcohol and 125°C from ligroin (Refs. 4,5). It appeared that the preparation recrystallized from heptane (melting point 128-129°C) is precipitated as a form with the melting point of 123°C after heating in diluted methanol at a cooling of the solution. If the melting is examined under the microscope, it can be seen that the substance molten at 123°C

7.3610

BONNY (=)() = 5 + 1 / 1 .

AUTHORS:

Potapov, V. M., Terent'yev, A. P., Dem'yanovien, V. M.

TITLE: Synthesis of Ali

Synthesis of Aliphatic Taurines by the Leuckart

Reaction

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30 Nr 3, pp

1043-1047 (USSR)

ABSTRACT:

A series of aliphatic β -ketosulfonic acids (see Table 1) was prepared by the action of dioxanesulfur trioxide on aliphatic ketones and converted into taurine homologic (see Table 2) by reductive

amination according to Leuckart:

 $R-CO-CH_2SO_3H + 2HCONH_2 \rightarrow R-CH-CH_2SO_3H + NH_3 + CO_2$

NH-CHO

Card 1/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013427

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

Reaction		0	\$0V/79-30-3-60/69
Tal (a	ole 1. Key: Alipnatic Ketosulfonic acid (b)	$oldsymbol{eta}$ -keton Yield (%	pulfonie acido. 6).
	a	b	
	CH ₃ COCH ₂ SO ₃ H CH ₃ COCH(CH ₃)SO ₃ H CH ₃ COCH(5o -C ₃ H ₇)SO ₃ H CH ₃ COCH(C ₃ H ₁)SO ₃ H C ₂ H ₃ COCH(CH ₃)SO ₃ H C ₃ H ₂ COCH(C ₃ H ₃)SO ₃ H (5o -C ₃ H ₇ COC(CH ₃) ₂ SO ₃ H	84,0 72,5 87,2 74,5 67,4 80,0 78,6	
Card 2/4			

Synthesis of Reaction	'Aliphathe Taurines by	Line	Leukar	r 783 80v)-3-02/69		
	Table 2. Key: Aliphatic homologo of N-formyltaurine. (a) Taurine; (b) Yield (%), (c) S-benzylthiuromium salt; (d) Mp; (e) Formula (f) N content (%); (a) Found;							
	(h) Calculated a	b		C	<u> </u>			
	CH ₃ CHCH ₂ SO ₃ H		194—195°	$\frac{e}{c_{12} H_{19} O_4 N_3 S_2}$	12.62, 12.83	12.63		
	NHCHO CH₃CHCH(CH₃)SO₃H ! NHCHO	38.3	152-152,5	$C_{13} H_{21} O_4 N_3 S_2$	11.81, 11.93	12,09		
	CH ₃ CHCH(<i>Iso</i> -C ₃ H ₇)SO ₃ H NHCHO	24.0	216-217	$C_{45}H_{25}O_4N_5S_2$	11.18, 11.35	11.19		
	CH ₃ CHCH(C ₅ H ₁₁)SO ₃ H NHCHO	20.0	179.5-180	$C_{17}U_{29}O_4N_3S_2$	10.38, 10.53	10.41		
	С ₂ П ₅ СИСИ(СП ₃)SO ₃ И 1 NИСИО	16.0	178.5 – 179	$C_{14}H_{23}O_4N_3S_2$	11.74, 11.65	11.62		
	С ₃ П ₇ СПСП(С ₂ П ₅)SO ₃ П NПСНО	_	118-119	$C_{16}H_{27}O_4N_3S_2$	10,48, 10,70	10.78		
Card 3/4	<i>i30</i> -C₃H7CHC(CH₃)₂SO₃H 	42	182—183	$C_{16}H_{27}O_4N_3S_2$	11.64, 11.50	10.78		

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Synthesis of Aliphatic Faurines by the Leukart Reaction

78300 **80V/79-3**0-3-62/69

The process of reductive amination was studied by the analytical method; i.e., by determination of the CO_2 , SO_4 , and $\mathrm{H}_2\mathrm{S}$ formed. It was shown that on sulfonation of ketones of type CH_3 - CO - CH_2 -R the sulfo group enters at the methylene group. There are 3 tables; and 6 references, 1 U.S., 1 U.K., 1 French, 3 Soviet. The 2 U.S. and U.K. references are: S. Zuffanti, J. Am. Chem. Soc., 62, 1044 (1940); J. Catch, D. Elliot, D. Hey, E. Jones, J. Chem. Soc., 272 (1948).

ASSOCIATION:

Moscow State University (Moskovskiy gosudarstvennyy

universitet)

SUBMITTED:

January 5, 1959

Card 4/4

POTAPOV, V.M.; TERENT'IEV, A.P.

Stereochamical studies. Part 8: Photoelectric spectromolarimeter and the rotatory dispersion of certain amines in the visible and ultraviolet. Zhur. ob. khim. 31 no.3:1003-1010 Mr '61. (MIRA 14:3)

1. Moskovskiy gosudarstvennyy universitet. (Polariscope) (Amines—Optical properties)

POTAPOV. V.M.; TERLET'YEV, A.P.

Stereochemical studies. Part 9: Spectropolarimetric detection of the tautomerism of amides. Zhur.ob.khim. 31 no.5:1720-1729 ky '64.

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

(Amides) (Tautomerism)

POTAPOV, V.M.; DEM'YANOVICH, V.M.; TERENT'YEV, A.P. Stereochemical studies. Part 11. Amides of optically active A-phenylethylamine with substituted benzoic acids. Zhur.ob.khim. (MIRA 14:9)

31 no.9:3046-3050 S 61.

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Ethylamine) (Amides) (Stereochemistry)

POTAPOV, V.M.; TERENT'YEV, A.P.; SPIVAK, S.P.

Storoochomical studies. Part 10: Schiff bases from optically active 2-aminobutane. Zhur.ob.khim. 31 no.7:2415-2419 J1 '61.

(MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(Butane) (Schiff bases)

POTAFOV, V.M.: GORYAYEV, M.I., akademik; TOISTIEDV, G.A.; TERENT'YEV, A.F.

Rotatory dispersion of cedrane series compounds. Dokl. AN SSSR
140 no.6:1341-1344 0 '61.

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
2. AN Kazakhskoy SSR (for Goryayev). 3. Chlen-korrespondent AN SSSR (for Terent'yev).

(Cedrane)

POTAPOV, V.M.; TROFIMOV, F.A.; TERENT YEV, A.P.

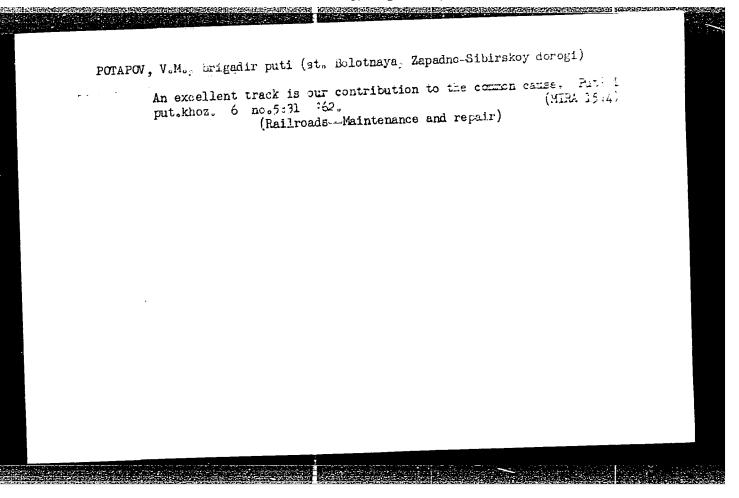
Stereochemistry. Part 12: Tautomerism of the product of condensation of (-) &-phenylethylemine with acetoacetic ester. Zhur.ob.khim. 31 no.10:3344-3353 0 161. (MIRA 14:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Ethylamine) (Acetoacetic acid) (Tautomerism)

POTAPOV, V.M.; DEM'YANOVICH, V.M.; LAZUTINA, L.I.; TERENT'YEV, A.P.

Stereochemical studies. Part 13: Rotatory dispersion of the derivatives of A-A--tolylethylamine and 2-aminobutarie. Zhur.-ob.khim. 32 no.4:1187-1191 Ap '62. (MIRA 15:4)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Amines) (Molecular rotation)



POTAPOV, V. M.

Moscow State University imeni M. V. Lomonosov. "Spectral-colarimetric analysis" Lecture Session A

Report to be submitted for the General Meeting on Modern Methods of Analytical Chemistry. Merseburg, East Germany, 24-25 Oct 163

POTAPOV, V.M.; TROFIMOV, F.A.; TERENT'YEV, A.P.

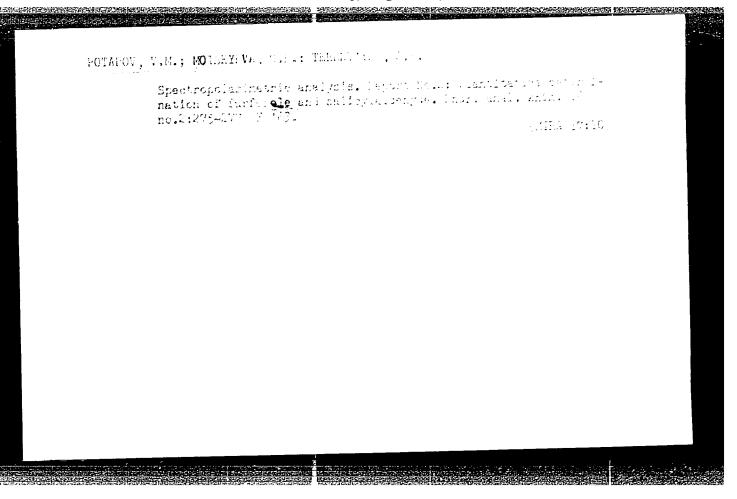
Stereochemical investigations. Part 14: Optically active aryl-6 -aminovinyl ketones and their tautomerism. Zhur.ob.khim.
33 no.3:853-859 Mr '63.

(Ketones—Optical properties)

(Tautomerism)

Spectropolarimetric analysis. Report No. 1: Quantitative determination of benzaldehyde. Zhur. anal. khim. 18 no.1: 116-120 Ja '63. (MIRA 16*4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova. (Benzaldehyde) (Spectrum analysis)



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Stereochemical studies. Part 15: Spectropolarimetric study of co-bonaylethylamine and its derivatives. Zhur.ot.khim. 33 no.7:2372-2376 Jl '63. (MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Ethylamine--Optical properties) (Spectrometry) (Stereochemistry)
```

POTAPOV, V.M.; MOISEYEVA, G.P.; TEKENT'YZV, A.P.

Optically active reagents for the carbonyl group. Vest.Mesk. un. Ser.
2: Khim. 18 no.4:28-29 Jl-Ag '63. (MIRA 16:9)

1. Kafedra organicheskoy khimii Meskovskogo universiteta.
(Carbonyl group) (Spectropolarimetry)

POTAPOV, V.M.; DEH'YANOVICH, V.M.

Spectropolarimetric study of certain amides and xanthates in connection with L.A.Chugov's works. Vest.Mesk. un. Ser.2:24-27 J1-Ag '63. (MIRA 16:9)

1. Kafedra erganicheskey khimii Meskovskoge universiteta. (Amides) (Xanthic acids) (Spectrepolarimetry)

FOTAPCV, V.M.

Spectropolarimetry, a new method of investigation in organic cosmistry.

Vest.Mask. un. Ser.2: Khim 18 no.4:3-23 Jl-Ag 163.(MIRA 16:9)

1. Kafedra organicheskoy khimii Meskovskoge universiteta.

(Spectropolarimetry)

POTAPOV, V.M.; TERENT'YEV, A.P.; PREOBRAZHENSKAYA, M.N.; SUVOROV, N.N.

Sterochemical studies. Fart 16: Critically sative A-(3-indely1), isopropylamine. Zhur. ob. khim. 33 no.8:2702-2705 Ag '63. (MIRA 16:11)

POTAFOV. V.M.; LAZUTINA, L.I.; TERENT'YEV. A.P.

Spectropolarimetric analysis. Report No.3: Determination of isomeric nitrobenzaldehydes in their mixtures. Zhur.anal.khim. 13 nc.3: 1003-1006 Ag '63. (MRA 16:12)

1. Moscow State University.

POTAPOV, V.M.; DEM'YANOVICH, V.M.; TERENT'YEV, A.P.

Spectropolarimetric analysis. Report No.4: Analysis of mixtures of ephedrine and pseudoephedrine. Zhur. anal. khim.
19 no.2:254-257 '64. (MIRA 17:9)

1. Moskovskiy gcsudarstvennyy universitet imeni Lomonosova.

POTAPO	v, v.m.	
	Spectropolarimetry. Priroda 53 no.4:64-71 '64. (MIRA 17:4)	·
	1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.	
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POTAFOV, V.M.; TERENT'YEV, A.P.

Stereochemistry. Part 17: Molecular rotation dispersion of 1,2-diphenylethanol. Zhur.ob.khim. 34 no.2:516-518 F '64. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

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Effect of the solvent c. the rotatory dispersion of acylatino solds.
Dokl. AN SSSR 158 nc.5:1136-1138 0 161. (MIRA 17:10)

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ACCESSION NR: APLO30371

AUTHORS: Topchiyeva, I. N.; Elobin, V. K.; Potapov, V. H.; Levina, R. Ya.; Kabanov, V. A.; Kargin, V. A.

TITLE: Synthesis of optically active polymers on the basis of propylenediamine and cyclopropanedicarboxylic acid

SOURCE: Vywsokomolekulyarnywye soyedineniya, v. 6, no. 3, 1964, 512-515

TOPIC TAGS: polymer, optically active polymer, polyamide, cyclopropanedicarboxylic acid, propylene-1,2-diamine, interfacial polycondensation, dichloride of cyclopropanedicarboxylic acid, turbidimetric titration

ABSTRACT: Synthesis of an optically active polymer from racemic components where the rate of incorporation of the D or L forms into the macromolecule differed was investigated. To 0.35 gm of racemic propylenediamine (in 400 ml water containing 0.8 gm KOH, at room temperature and under energetic stirring) were added dropwise 0.75 gm of the dichloride of trans-cyclopropenedicarbonic-1,2 acid in 90 ml of chloroform. After standing 30 minutes the polymide was separated by filtration, washed with 10% HCl and water, and purified by dissolution in 85% formic soid and

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subsequent precipitation with ammonia. The synthesis of a polyamide from L-propylenediamine was conducted in a similar way. From this polyamide the cyclopropane-dicarbonic acid component was recovered by hydrolysis with phosphoric acid, treatment with barium hydroxide, and passage through a column containing the cationic ment with barium hydroxide, and passage through a column containing the cationic resin KU-2. The recovered acid was found to be optically inert, while the polyamide itself displayed an optical rotation of a sign opposite to that of the original L-propylenediamine (its optical rotation dispersion curve being normal). It was also observed that the melting point of the optically active polymer was 40 to 50 degrees higher than that of the racemic polyamide. Orig. art. has: 1 formula and 3 charts.

ASSOCIATION: Moscovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

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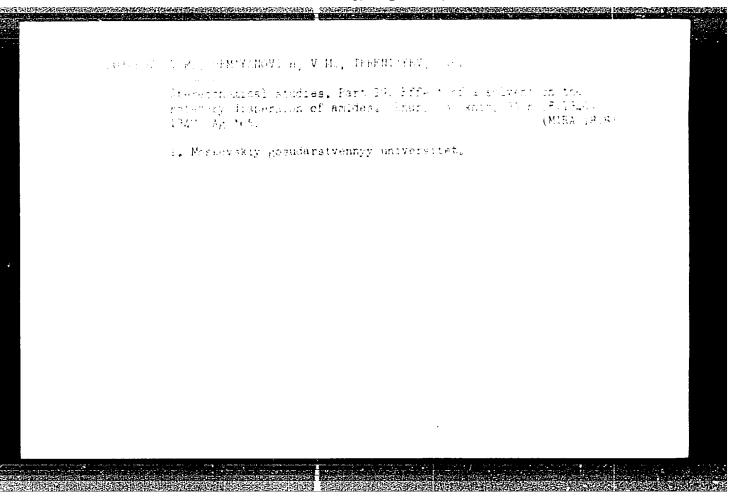
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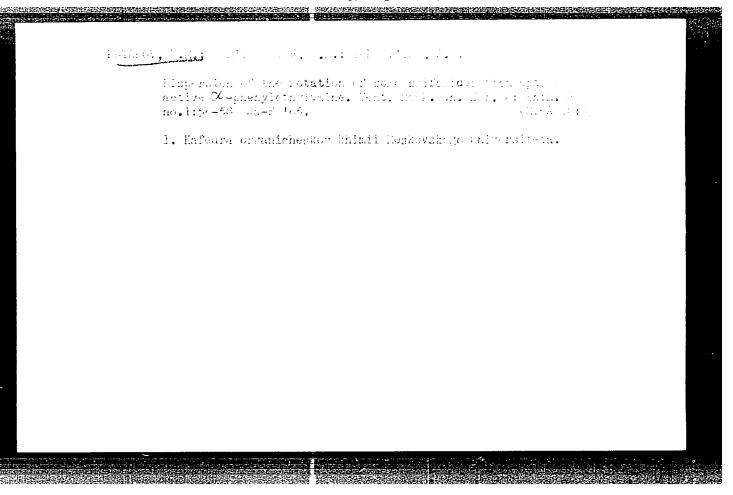
TEMENT'YEV, Aleksandr Fetrovich; POTAFOV, Viktor Mikhaylovich;

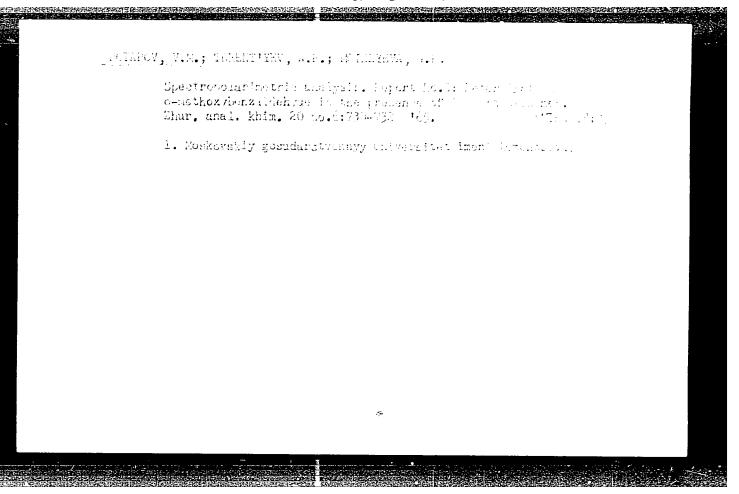
ROLOSOV, M.N., st. nauchn. sotr., retsenzent; VOL'PIN,

M.Ye., doktor khim. nauk, red.

[Principles of stereochemistry] Osnovy stereokhimii. Moskva, Khimiia, 1964. 687 p. (MIRA 17:12)







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Stereochemical studies. Part 18: Determination of amine

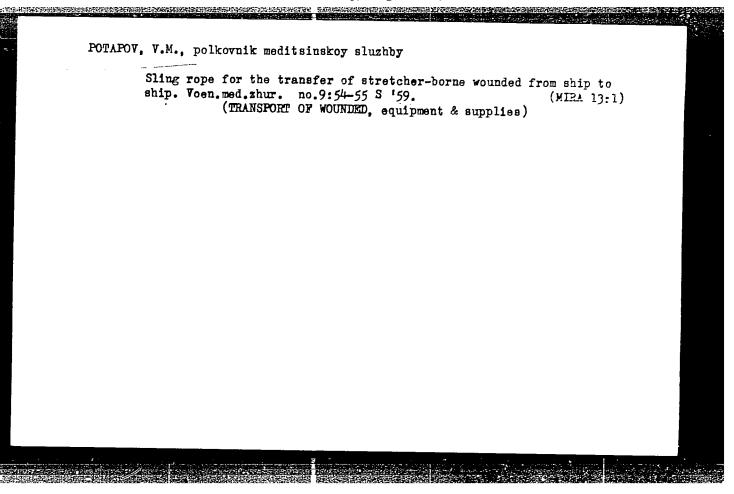
configuration by the rotatory dispersion method. Zhur. ob. khim. 35 no.9:1538-1545 S '65. (MIRA 18:10)

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FOTAPOV, V.M., Toment'(EV, A.F.; SEROVA, L.I.

Stepschomical studies, Part 21: Dispersion of the optical colution of 3-amino-3-phenylpropionitrile, Zhur, org. khim. I no.8:1444-1447 Ag '65. (MIRA 18:11)

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